

## No. 1

- ESOPHAGUS**
- 1 Cost Effectiveness of Medical versus Surgical Treatment in Patients with Severe or Refractory Gastroesophageal Reflux Disease in The Netherlands  
G. VAN DEN BOOM, P. M. M. Y. H. GO, W. HAMEETMAN, B. DALLEMAGNE & A. J. H. A. AMENT
- 10 p53 Protein Expression in Esophageal Squamous Cell Papillomas: A Study of 36 Lesions  
M. POLJAK, A. CERAR & J. ORLOWSKA
- STOMACH**
- 14 Role of Adenosine and Nitric Oxide in the Hyperemic Response to Superficial and Deep Gastric Mucosal Injury and H<sup>+</sup> Back-Diffusion in Cats  
H. GISLASON, P. VARHAUG, H. SØRBYE, H. L. WALDUM & K. SVANES
- 24 Gastric Acid Secretion after Depletion of Enterochromaffin-Like Cell Histamine. A Study with  $\alpha$ -Fluoromethylhistidine in Rats  
K. ANDERSSON, J. L. CABERO, H. MATTSSON & R. HÅKANSON
- 31 Rat Stomach Enterochromaffin-Like Cells Are Not Stimulated by Pylorus Ligation. A Biochemical and Ultrastructural Study  
C.-M. ZHAO, D. CHEN, H.-J. MONSTEIN, X.-Q. DING, F. SUNDLER & R. HÅKANSON
- 38 Gastric Bicarbonate Secretion and Release of Prostaglandin E<sub>2</sub> Are Increased in Duodenal Ulcer Patients But Not in *Helicobacter pylori*-Positive Healthy Subjects  
A. MERTZ-NIELSEN, J. HILLINGSØ, H. FRØKLÆR, K. BUKHAVE & J. RASK-MADSEN
- PEPTIC ULCER**
- 44 The Role of Blood Flow in Chronic Duodenal Ulcer  
R. H. K. GOMPERTZ, R. T. MATHIE, A. S. MICHALOWSKI, J. SPENCER, J. H. BARON & R. C. N. WILLIAMSON
- UPPER GASTROINTESTINAL TRACT**
- 49 Gastrointestinal Transit of Amoxicillin Modified-Release Tablets and a Placebo Tablet Including Pharmacokinetic Assessments of Amoxicillin  
J. GOTTFRIES, A. SVENHEDEN, M. ALPSTEN, B. BAKE, A. LARSSON & J.-P. IDSTRÖM
- SMALL AND LARGE INTESTINE**
- 54 Symptoms and Haematologic Features in Consecutive Adult Coeliac Patients  
S. BODÉ & E. GUDMAND-HØYER
- 61 Value of Serologic Markers for Clinical Diagnosis and Population Studies of Coeliac Disease  
H. ASCHER, M. HAHN-ZORIC, L. Å. HANSON, A.F. KILANDER, L. Å. NILSSON & H. TLASKALOVÁ
- 68 Endocrine Cells in Rectal Biopsy Specimens from Patients with Familial Amyloidotic Polyneuropathy  
M. EL-SALHY & O. SUHR
- INFLAMMATORY BOWEL DISEASE**
- 74 Prevalence of Crohn's Disease and Simultaneous Occurrence of Extraintestinal Complications and Cancer. An Epidemiologic Study in Adults  
A. LINDGREN, S. WALLERSTEDT & R. OLSSON
- 79 Seasonal Change in the Exacerbations of Crohn's Disease  
L. ZENG & F. H. ANDERSON
- PANCREAS**
- 83 Effects of Acute and Chronic Infusion of Islet Amyloid Polypeptide on Food Intake in Rats  
U. ARNELO, J. E. BLEVINS, J. LARSSON, J. PERMERT, P. WESTERMARK, R. D. REIDELBERGER & T. E. ADRIAN
- 90 Medium-Chain Triglyceride Absorption in Patients with Pancreatic Insufficiency  
S. CALIARI, L. BENINI, C. SEMBENINI, B. GREGORI, V. CARNIELLI & I. VANTINI
- CORRESPONDENCE**
- 95 Signet Ring Cell Carcinoma in Hyperplastic Polyp  
F. CARNEIRO & M. SOBRINHO-SIMÕES

## No. 2

- OESOPHAGUS**
- 97 The Application of Micrordige Analysis in the Diagnosis of Gastro-oesophageal Reflux Disease  
B. T. JOHNSTON, S. NUNN, J. M. SLOAN, J. S. A. COLLINS, R. J. MCFARLAND, S. PARKIN, K. E. CARR & B. J. COLLINS
- HELICOBACTER PYLORI**
- 103 Verification of Decreased Basal and Stimulated Serum Pepsinogen-I Levels Is a Useful Non-Invasive Method for Determining the Success of Eradication Therapy for *Helicobacter pylori*  
J. P. GISBERT, D. BOIXEDA, T. VILA, L. DE RAFAEL, C. REDONDO, R. CANTÓN & C. MARTÍN DE ARGILA
- UPPER GASTROINTESTINAL TRACT**
- 111 Effects of the Anti-Gastric Secretory Drugs IT-066 and Omeprazole on Mitogenic Activities in the Gastric Juice of the Rat  
K. KASUGAI, T. JOH, H. KATAOKA, T. KATO & M. ITOH
- 118 Gastric Adaptation to Aspirin and Stress Enhances Gastric Mucosal Resistance against the Damage by Strong Irritants  
T. BRZOZOWSKI, P. Ch. KONTUREK, S. J. KONTUREK & J. STACHURA

- 126 Non-Steroidal Anti-Inflammatory Drugs and Ulcer Complications: a Risk Factor Analysis for Clinical Decision-Making**  
J. MØLLER HANSEN, J. HALLAS, J. M. LAURITSEN & P. BYTZER
- MOTILITY**
- 131 Is Motility Impaired in the Entire Upper Gastrointestinal Tract in Patients with Gastro-oesophageal Reflux Disease?**  
L. LUNDELL, J. C. MYERS & G. G. JAMIESON
- 136 Gastric Clearance of Radiopaque Markers in Non-Ulcer Dyspepsia Patients**  
C.-S. CHANG, G.-H. CHEN, C.-H. KAO, S.-J. WANG, S.-N. PENG, S.-K. POON & C.-K. HUANG
- SMALL AND LARGE INTESTINE**
- 140 The X-Ray Contrast Medium Iodixanol Detects Increased Colonic Permeability Equally Well as  $^{51}\text{Cr}$ -labeled Ethylenediaminetetraacetic Acid in Experimental Colitis of Rats**  
R. ANDERSEN, J. HOSAKA, T. S. HALSTENSEN, A. STORDAHL, A. TVERDAL, L. AABAKKEN & F. LÆRUM
- DIGESTION**
- 147 In Vitro Effects of Ethanol on Human Gastric and Pancreatic Lipolytic Activities/Enzymes**  
B. STERNBY, H. BARROS & Å. NILSSON
- INFLAMMATORY BOWEL DISEASE**
- 154 Assessment of the Diagnoses of Crohn's Disease and Ulcerative Colitis in a Danish Hospital Information System**  
K. FONAGER, H. TOFT SØRENSEN, S. NØRBY RASMUSSEN, J. MØLLER-PETERSEN & M. VYBERG
- GASTROINTESTINAL CANCER**
- 160 Cholecystectomy as a Risk Factor for Colorectal Cancer: A Meta-Analysis**  
F. D. A. REID, P. M. MERCER, M. HARRISON & T. BATES
- 170 Plasminogen Activators and Plasminogen Activator Inhibitor in Portal Blood from Patients with and without Gastric Malignancy**  
H. B. RAHR, J. V. SØRENSEN, J. F. LARSEN, F. SVENSEN JENSEN & C. BREDAHL
- LIVER AND BILIARY TRACT**
- 175 A Bacteriologic and Scanning Electron Microscope Study after Implantation of Foreign Bodies in the Biliary Tract in Rats**  
J.-L. YU, R. ANDERSSON, H. PÄRSSON, E. HALLBERG, Å. LJUNGÅ & S. BENGMARK
- 182 Leukocyte and Platelet Depletion Protects the Liver from Damage Induced by Cholestasis and Ischemia-Reperfusion in the Dog**  
T. KURODA & E. SHIOHARA
- 191 Expectant Management of Patients with Gallbladder Stones Diagnosed at Planned Investigation. A Prospective 5- to 7-Year Follow-Up Study of 153 Patients**  
G. E. PERSSON
- ENDOSCOPY**
- 200 No Effect of Oxygen Therapy on Myocardial Ischaemia during Gastroscopy**  
J. ROSENBERG, K. STAUSHOLM, I. BAK ANDERSEN, M. HJORTH PEDERSEN, K. BRINCH, V. RASMUSSEN & P. MATZEN
- CASE REPORT**
- 206 Hepatotoxicity Due to Lysine Salt of Bendazac**  
M. ALCALDE, M. GARCIA-DIAZ, F. NAJARRO, M. S. DONOSO, L. CEBRIA & J. M. PASCASIO

## No. 3

- STOMACH**
- 209 Expression of Epidermal Growth Factor and Transforming Growth Factor- $\alpha$  after Exposure of Rat Gastric Mucosa to Stress**  
P. C. KONTUREK, H. ERNST, T. BRZOZOWSKI, A. IHLM, E. G. HAHN & S. J. KONTUREK
- 217 Perturbations in Blood  $\text{Ca}^{2+}$  Do Not Affect the Activity of Rat Stomach Enterochromaffin-like Cells**  
R. HÄKANSON, R. GAGNEMO-PERSSON & V. V. SURVE
- HELICOBACTER PYLORI**
- 222 Characterization of Lymphocytic Infiltrates in *Helicobacter pylori*-Associated Gastritis**  
R. A. HATZ, G. MEIMARAKIS, E. BAYERDÖRFFER, M. STOLTE, T. KIRCHNER & G. ENDERS
- 229 Rate of *Helicobacter pylori* Acquisition among Finnish Adults. A 15-Year Follow-up**  
P. SIPPONEN, T. U. KOSUNEN, I. M. SAMLOFF, O. P. HEINONEN & M. SIURALA
- SMALL AND LARGE INTESTINE**
- 233 Cyclic Adenosine-3',5'-Monophosphate Production Is Greater in Rabbit Duodenal Crypt Than in Villus Cells**  
M. AMELSBERG, A. AMELSBERG, M. A. AINSWORTH, D. L. HOGAN & J. I. ISENBERG
- 240 In vitro Hydrolysis of Gliadin and Casein Peptides: Secondary Defect in Coeliac Disease Shown by Organ Culture**  
F. WALZ, H. WIESER & M. STERN
- 247 In vitro Activities of A-Gliadin-Related Synthetic Peptides. Damaging Effect on the Atrophic Coeliac Mucosa and Activation of Mucosal Immune Response in the Treated Coeliac Mucosa**  
L. MAIURI, R. TRONCONI, M. MAYER, S. COLETTA, A. PICARELLI, M. DE VINCENZI, V. PAVONE & S. AURICCHIO

- 254 Relationship between Small-Intestinal Transit Rate and Intestinal Absorption of  $^{14}\text{C}$ -labelled Mannitol and  $^{51}\text{Cr}$ -labelled Ethylenediaminetetraacetic Acid in Healthy Subjects  
J. LYSGÅRD MADSEN, O. SCHARFF, A. RABØL & O. WORM KROGSGAARD
- INFLAMMATORY BOWEL DISEASE**
- 260 Changes in Extent of Ulcerative Colitis. A Study on the Course and Prognostic Factors  
E. LANGHOLZ, P. MUNKHOLM, M. DAVIDSEN, O. H. NIELSEN & V. BINDER
- 267 Defined-Formula Diets versus Steroids in the Treatment of Active Crohn's Disease. A Meta-Analysis  
A. MESSORI, G. TRALLORI, G. D'ALBASIO, M. MILLA, G. VAN-NOZZI & F. PACINI
- LIVER AND BILIARY TRACT**
- 273 Sedimentation of Biliary 'Sludge'. Effect on Composition of Gallbladder Bile from Patients with Cholesterol, Mixed, or Pigment Stones  
D. JÜNGST, R. DEL POZO, S. CHRISTOPH, J. F. MIQUEL,
- 279 Left Ventricular Diastolic Function in Liver Cirrhosis  
G. FINUCCI, A. DESIDERI, D. SACERDOTI, M. BOLOGNESI, C. MERKEL, P. ANGELI & A. GATTA
- 285 Transjugular Intrahepatic Portosystemic Shunt with the Strecke Stent for Control of Refractory Acute and Chronic Variceal Bleeding. Results in 50 Patients  
R. BAÑARES CAÑIZARES, J. M. RODRÍGUEZ-LAIZ, M. CASADO MARTÍN, A. ECHEAGUSIA BELDA, F. CAMUÑEZ ALONSO, F. PÉREZ ROLDÁN, L. SANTOS CASTRO, E. COS ARREGUI & G. CLEMENTE RICOTE
- 294 Endoscopic Treatment of Bile Duct Calculi in Patients with Gallbladder in Situ. Long-Term Outcome and Factors Predictive of Recurrent Symptoms  
L.-E. HAMMARSTRÖM, T. HOLMIN & H. STRIDBECK
- LAPAROSCOPIC SURGERY**
- 302 Laparoscopic-Assisted Ileocecal Resection for Crohn's Disease. A Preliminary Study  
P. JESS, E. HYLANDER MØLLER, K. LADEFØGD & J. CHRISTIANSEN

## No. 4

- REVIEW**
- 305 Carbonic Anhydrase in the Alimentary Tract. Roles of the Different Isozymes and Salivary Factors in the Maintenance of Optimal Conditions in the Gastrointestinal Canal  
S. PARKKILA & A.-K. PARKKILA
- DYSPEPSIA**
- 318 A New Pharmacologic Treatment of Functional Gastrointestinal Disorder. A Double-Blind Placebo-Controlled Study with Mianserin  
L. TANUM & U. F. MALT
- STOMACH**
- 326 Protective Effect of Teprenone on Blood Flow and Incidence of Histologic Lesions in Rat Gastric Mucosa after Hemorrhage and Retransfusion  
A. HACHIYA, M. BESSHIO, T. IWASAKI, K. IIADA & S. OTSUKA
- HELICOBACTER PYLORI**
- 334 The *Helicobacter felis* Mouse Model in Assessing Anti-*Helicobacter* Therapies and Gastric Mucosal Prostaglandin E<sub>2</sub> Levels  
J. HÖÖK-NIKANNE, P. AHO, P. KÄRKÄINEN, T. U. KOSUNEN & M. SALASPURO
- SMALL AND LARGE INTESTINE**
- 339 Faecal Calprotectin Shedding after Short-Term Treatment with Non-Steroidal Anti-Inflammatory Drugs  
T. R. MELING, L. AABAKKEN, A. RØSETH & M. OSNES
- 345 Reduced Glutamine Content in Colonic Polyps  
E. GOLDIN, L. APTEKAR, J. SIGUENCIA, E. TSVANG, A. FICH & J. ZIMMERMAN
- 349 Growth Hormone Did Not Enhance Mucosal Hyperplasia after Small-Bowel Resection  
J. H. Y. PARK & J. A. VANDERHOOF
- INFLAMMATORY BOWEL DISEASE**
- 355 Incidence of Crohn's Disease in Four Counties in Southeastern Norway, 1990–93. A Prospective Population-Based Study  
B. MOUM, M. H. VATN, A. EKBOM, E. AADLAND, O. FAUSA, I. LYKGREN, N. STRAY, J. SAUAR & T. SCHULZ
- 362 Incidence of Ulcerative Colitis and Indeterminate Colitis in Four Counties of Southeastern Norway, 1990–93. A Prospective Population-Based Study  
B. MOUM, M. H. VATN, A. EKBOM, E. AADLAND, O. FAUSA, I. LYKGREN, J. SAUAR, T. SCHULZ & N. STRAY
- 367 Smoking Is a Risk Factor for Osteoporosis in Women with Inflammatory Bowel Disease  
J. A. SILVENNOINEN, J. K. LEHTOLA & S. E. NIEMELÄ
- 372 Mortality in Patients with Crohn's Disease  
M. COTTONE, A. MAGLIOCCHI, M. ROSELLI, F. PINZONE, L. OLIVA, A. ORLANDO, M. R. AIALA, C. CIPOLLA & L. PAGLIARO
- GASTROINTESTINAL CANCER**
- 376 Adenoma–Carcinoma Sequence in the Papilla of Vater  
M. STOLTE & C. PSCHERER
- 383 GASTROINTESTINAL HORMONES  
Cholecystokinin-A and Cholecystokinin-B/Gastrin Receptor mRNA Expression in the Gastrointestinal

- Tract and Pancreas of the Rat and Man. A Polymerase Chain Reaction Study**  
H.-J. MONSTEIN, A.-G. NYLANDER, A. SALEHI, D. CHEN,  
I. LUNDQUIST & R. HÄKANSON
- LIVER AND BILIARY TRACT**
- 391 Effects of Wortmannin, a Novel Myosin Light-Chain Kinase Inhibitor, on Bile Canalicular Contraction in Vitro and in Vivo  
S. SUZUKI, S. WATANABE, M. HIROSE, T. KITAMURA,  
H. OIDE & N. SATO
- 398 Bacterial Adherence and Biofilm Formation on Latex and Silicone T-Tubes in Relation to Bacterial Contamination of Bile  
A. KOIVUSALO, H. MÄKISALO, M. TALJA, A. SIITONEN,  
J. VUOPIO-VARKILA, M. RUUTU & K. HÖCKERSTEDT
- PANCREAS**
- 404 Gastrin Does Not Stimulate Growth of the Rat Pancreas  
D. CHEN, A.-G. NYLANDER, P. NORLÉN & R. HÄKANSON
- 411 Acute Pancreatitis in Buskerud County, Norway.  
Incidence and Etiology  
F.-A. HALVORSEN & S. RITLAND
- CASE REPORT**
- 415 Esophageal Malignancy after Liver Transplantation in a Patient with Barrett's Esophagus  
Y. ILAN, D. SHOUVAL, E. GALUN, E. GOLDIN, M. LIGUMSKY, G. FRIEDMAN & R. TUR KASPA

## No. 5

- REVIEW**
- 417 Epidemiology of Inflammatory Bowel Disease: An Update  
M. G. V. M. RUSSEL & R. W. STOCKBRÜGGER
- HELICOBACTER PYLORI**
- 428 The Effect of *Helicobacter pylori* on Gastric Acid Secretion by Isolated Parietal Cells from a Guinea Pig. Association with Production of Vacuolating Toxin by *H. pylori*  
H. KOBAYASHI, S. KAMIYA, T. SUZUKI, K. KOHDA,  
S. MURAMATSU, T. KURUMADA, U. OHTA, M. MIYAZAWA,  
N. KIMURA, N. MUTOH, T. SHIRAI, A. TAKAGI,  
S. HARASAWA, N. TANI & T. MIWA
- 434 *Helicobacter* Colonization of Biopsy Specimens Cultured in Vitro Is Dependent on Both Mucosal Type and Bacterial Strain  
K. MEYER-ROSBERG & T. BERGLINDH
- 442 Nondispersive Isotope-Selective Infrared Spectroscopy: A New Analytical Method for  $^{13}\text{C}$ -Urea Breath Tests  
B. BRADEN, F. SCHÄFER, W. F. CASPARY & B. LEMBCKE
- MOTILITY**
- 446 Human Galanin Modulates Human Colonic Motility in Vitro. Characterization of Structural Requirements  
S. KATSOULIS, A. CLEMENS, C. MORYS-WORTMANN,  
H. SCHWÖRER, H. SCHAUBE, H.-J. KLOMP, U. R. FÖLSCH &  
W. E. SCHMIDT
- 452 Gastric Antral Motility in Functional Dyspepsia. Effect of Mental Stress and Cisapride  
K. HVEEM, T. HAUSKEN, S. SVEBAK & A. BERSTAD
- 458 The Relationship between Gut Hormone Secretion and Gastric Emptying in Different Phases of the Migrating Motor Complex  
L. RASMUSSEN, E. ØSTER-JØRGENSEN, N. QVIST, J. J. HOLST, J. F. REHFELD, C. P. HOVENDAL & S. A. PEDERSEN
- IRRITABLE BOWEL SYNDROME**
- 463 A Double-Blind Placebo-Controlled Trial with Loperamide in Irritable Bowel Syndrome  
P. S. EFSKIND, T. BERNKLEV & M. H. VATN
- ABDOMINAL SYNDROMES**
- 469 Redefining Abdominal Syndromes. Results of a Population-Based Study  
L. KAY & T. JØRGENSEN
- GASTROINTESTINAL CANCER**
- 476 Postoperative Staging of Gastric Carcinoma. A Comparison between the UICC Stage Classification and the 12th Edition of the Japanese General Rules for Gastric Cancer Study  
Y. KODERA, Y. YAMAMURA, A. TORII, K. UESAKA, T. HIRAI,  
K. YASUI, T. MORIMOTO, T. KATO & T. KITO
- 481 Prognostic Significance of p53 Expression, Chromosome 17 Copy Number, and DNA Ploidy in Non-Metastasized Colorectal Carcinomas (Stages IB and II)  
G. B. BARETTON, M. VOGT, C. MÜLLER, J. DIEBOLD,  
K. SCHNEIDERBANGER, M. SCHMIDT & U. LÖHRS
- LIVER AND BILIARY TRACT**
- 490 Portal Hypertensive Colopathy in Patients with Cirrhosis  
L.-S. CHEN, H.-C. LIN, F.-Y. LEE, M.-C. HOU & S.-D. LEE
- 495 Portal Duplex Sonography in Liver Cirrhosis. A Useful Supplement to Endoscopic Evaluation of Bleeding Risk of Esophageal Varices?  
T. KÖRNER
- 500 Plasma Interleukin-6 Levels in Patients with Cirrhosis. Relationship to Endotoxemia, Tumor Necrosis Factor- $\alpha$ , and Hyperdynamic Circulation  
F. Y. LEE, R. H. LU, Y. T. TSAI, H. C. LIN, M. C. HOU, C. P. LI,  
T. M. LIAO, L. F. LIN, S. S. WANG & S. D. LEE

- 506 Biliary Complications in One Hundred Adult Liver Transplantations  
A. KOIVUSALO, H. ISONIEMI, K. SALMELA, J. EDGREN, H. VON NUMERS & K. HÖCKERSTEDT
- 512 Acute Effect of Ursodeoxycholic Acid on Gallbladder Volume in Healthy Subjects  
C. SAILER, J. PAULETZKI, U. G. KLUEPPELBERG, S. FISCHER, M. SACKMANN & G. PAUMGARTNER
- PANCREAS**
- 517 Pancreatic Duct Abnormalities and Pancreatic Function in Patients with Chronic Inflammatory Bowel Disease  
B. HEIKIUS, S. NIEMELÄ, J. LEHTOLA, T. KARTTUNEN & S. LÄHDE

- 524 **CASE REPORT**  
Giant Splenic Cyst with High Serum Concentration of CA 19-9. Failure of Treatment with Percutaneous Transcatheter Drainage and Injection of Tetracycline  
H. YOSHIKANE, T. SUZUKI, N. YOSHIOKA, Y. OGAWA, Y. HAYASHI, E. HAMAJIMA & T. YOKOI
- 527 **CORRESPONDENCE**  
Serum Gastrin Levels  
I. BEALES

## No. 6

- REVIEW**
- 529 Vagal Regulation of the Gastrointestinal Neuroendocrine System  
B. QIAN, Å. DANIELSSON & M. EL SAHLY
- HELICOBACTER PYLORI**
- 541 Refinement of, and New Applications for, *Helicobacter pylori* Colonization in Pig Gastric Biopsy Specimens Cultured in Vitro  
K. MEYER-ROSBERG & T. BERGLINDH
- 546 Long-Term Course and Consequences of *Helicobacter pylori* Gastritis. Results of a 32-Year Follow-up Study  
J. VALLE, M. KEKKI, P. SIPPONEN, T. IHAMÄKI & M. SIURALA
- COELIAC DISEASE**
- 551 Changes in Jejunal Mucosa after Long-Term Feeding of Germfree Rats with Gluten  
R. ŠTĚPÁNKOVÁ, H. TLASKALOVÁ-HOGENOVÁ, J. ŠINKORA, J. JODL & P. FRÍČ
- SMALL AND LARGE INTESTINE**
- 558 Pectin-Supplemented Enteral Diet Reduces the Severity of Methotrexate-Induced Enterocolitis in Rats  
Y. MAO, B. KASRAVI, S. NOBAEK, L. Q. WANG, D. ADAWI, G. ROOS, U. STENRAM, G. MOLIN, S. BENGMARK & B. JEPSON
- 568 Short-Chain Fatty Acids in the Non-Adapted and Adapted Pelvic Ileal Pouch  
H. HOVE & P. BRØBECHE MORTENSEN
- 575 Evaluation of a Questionnaire in the Assessment of Patients with Faecal Incontinence and Constipation  
A. ÖSTERBERG, W. GRAF, U. KARLBOM & L. PÅHLMAN
- 581 Ambulatory 24-Hour Jejunal Motility in Diarrhea-Predominant Irritable Bowel Syndrome  
T. SCHMIDT, N. HACKELSBERGER, R. WIDMER, C. MEISEL, A. PFEIFFER & H. KAESS
- INFLAMMATORY BOWEL DISEASE**
- 590 Doppler Ultrasound Measurement of Intestinal Blood Flow in Inflammatory Bowel Disease  
G. MACONI, V. IMBESI & G. BIANCHI PORRO
- 594 **Perinuclear Antineutrophil Cytoplasmic Antibody in Pouchitis after Proctocolectomy with Ileal Pouch-Anal Anastomosis for Ulcerative Colitis**  
P. YANG, T. ÖRESLAND, G. JÄRNERT, L. HULTÉN & D. DANIELSSON
- 599 **A Prospective Epidemiologic Study of Crohn's Disease in Heraklion, Crete. Incidence over a 5-Year Period**  
O. N. MANOUSOS, I. KOUTROUBAKIS, S. POTAMIANOS, M. ROUSSOMOUSTAKAKI, N. GOURTSOYIANNIS & I. G. VLACHONIKOLIS
- LIVER AND BILIARY TRACT**
- 604 Factors Influencing the Response to Interferon Therapy in Chronic Hepatitis C. Studies on Viral Genotype and Induction of 2',5'-Oligoadenylate Synthetase in the Liver and Peripheral Blood Cells  
D. GRANDÉR, R. HULTCRANTZ, O. WEILAND, B. XU, O. SANGFELT, A.-C. BJÖRKLUND, R. BEFRITS, M. BJÖRKHOLM, A. GRUBER, N. KINNMAN, O. REICHARD, A. WIDELL & S. EINHORN
- 612 Gallbladder Function and Recurrent Stones of the Biliary Tract in Patients after Endoscopic Sphincterotomy  
K. H. LAI, N. J. PENG, J. S. CHENG, G. H. LO, E. M. WANG, N. M. WANG, R. L. HUANG, C. F. CHANG, C. K. LIN & S. M. CHEN
- PREVENTION OF VENOUS THROMBOSIS**
- 616 Characterization of 'Winners' to Enoxaparin in the Prevention of Postoperative Venous Thromboembolism in Digestive Surgery  
O. REIERTSEN, P. MOWINCKEL, O. BAKERSETH, T. LØVIG, G. THORSEN, T. GERNER, T. LØTVEIT & S. LARSEN
- CASE REPORT**
- 622 Iron Deficiency Anemia, Backache, and Abdominal Pain Attacks during Sexual Intercourse in a 42-Year-Old Woman  
S. MULARI, M. MUSTONEN & E. A. SOTANIEMI
- CORRESPONDENCE**
- 624 Side Effects of Omeprazole  
A. MARKITZIU & D. AFRAMIAN

## No. 7

- REVIEW**
- 625 Infections Associated with Biliary Drains  
J. L. YU, R. ANDERSSON & Å. LJUNGQVIST
- STOMACH**
- 631 Modulation of Pentagastrin-Induced Histamine Release by Histamine H<sub>3</sub> Receptors in the Dog  
G. SOLDANI, M. GARBARG, L. INTORRE, S. BERTINI, A. ROULEAU & J.-C. SCHWARTZ
- HELMICOBACTER PYLORI**
- 639 Gastric Inflammation and Neutrophil-Activating and Cytotoxin-Producing *Helicobacter pylori* Strains  
H. RAUTELIN, P. SIPPONEN, K. SEPPÄLÄ, S. SARNA, D. DANIELSSON & T. U. KOSUNEN
- 643 *Helicobacter pylori* Infection in Young Patients with Gastric Carcinoma  
A. KOKKOLA, J. VALLE, R. HAAPIAINEN, P. SIPPONEN, E. KIVILAAKSO & P. PUOLAKKAINEN
- ABDOMINAL SYMPTOMS**
- 648 General Practitioners' Approach to Dyspepsia.. Survey of Consultation Frequencies, Treatment, and Investigations  
M. HEIKKINEN, P. PIKKARAINEN, J. TAKALA & R. JULKUNEN
- 654 Gastrointestinal Symptoms in Myotonic Dystrophy  
A. RÖNNBLÖM, H. FORSBERG & Å. DANIELSSON
- MOTILITY**
- 658 24-Hour Ambulatory Electrogastrography in Healthy Volunteers  
G. LINDBERG, M. IWARZON & B. HAMMARLUND
- GASTROINTESTINAL HORMONES**
- 665 Secretion of the Incretin Hormones Glucagon-Like Peptide-1 and Gastric Inhibitory Polypeptide Correlates with Insulin Secretion in Normal Man Throughout the Day  
C. ØRSKOV, A. WETTERGREN & J. J. HOLST
- METABOLISM**
- 671 Gastric Emptying and First-Pass Metabolism of Ethanol in Elderly Subjects with and without Atrophic Gastritis  
M. C. PEDROSA, R. M. RUSSELL, J. R. SALTZMAN, B. B. GOLNER, G. E. DALLAL, T. E. SEPE, E. OATES, G. EGERER & H. K. SEITZ
- POSTOPERATIVE ADHESIONS**
- 678 Effect of Octreotide on Postoperative Intraperitoneal Adhesions in Rats  
H. S. LAI & Y. CHEN
- SMALL AND LARGE INTESTINE**
- 682 Effects of Hypoperfusion on Small-Intestinal Mucosal Morphology and Intestinal Barrier Function  
G. KURLBERG, K. LUNDHOLM & E. HAGLIND
- 688 Antibiotic-Associated Diarrhoea, *Clostridium difficile*, and Short-Chain Fatty Acids  
H. HOVE, M. TVEDE & P. BRØBECHE MORTENSEN
- 694 Incidence and Prevalence of Adult Coeliac Disease within a Defined Geographic Area in Denmark  
S. BODÉ & E. GUDMAND-HØYER
- INFLAMMATORY BOWEL DISEASE**
- 700 Investigation of Neutrophils in the Gut Lumen by Assay of Granulocyte Elastase in Whole-Gut Lavage Fluid  
L. M. HANDY, S. GHOSH & A. FERGUSON
- 706 Monocyte Aggregation and Multinucleated Giant-Cell Formation in Vitro in Crohn's Disease. The Effect of Cell Adhesion Molecules  
Z. X. LUI, M. NOGUCHI, N. HIWATASHI & T. TOYOTA
- GASTROINTESTINAL CANCER**
- 711 Can Endoscopic Biopsy Specimens Be Used for Reliable Laurén Classification of Gastric Cancer?  
L.-E. HANSSON, A. LINDGREN & O. NYRÉN
- LIVER AND BILIARY TRACT**
- 716 Induction of Antinuclear Antibody after Interferon Therapy in Patients with Type-C Chronic Hepatitis: Its Relation to the Efficacy of Therapy  
K. NODA, N. ENOMOTO, K. ARAI, E. MASUDA, Y. YAMADA, K. SUZUKI, M. TANAKA & H. YOSHIHARA
- PANCREAS**
- 723 Comparison of the Effects of Two Cholecystokinin-Receptor Antagonists, Loxiglumide and L-364,718, on the Pancreatic Secretory Response to Intraduodenal Tryptophan in Dogs  
E. NIEBERGALL-ROTH, S. TEYSSEN, D. WETZEL, M. HARTEL, C. BEGLINGER, R. L. RIEPL & M. V. SINGER
- CASE REPORT**
- 733 Concomitant Active Crohn's Disease and the Acquired Immunodeficiency Syndrome  
A. D. CHRIST, C. C. SIEBER, G. CATHOMAS & K. GYR
- CORRESPONDENCE**
- 736 Galenic Formulations and *Helicobacter pylori* Eradication  
D. BOIXEDA, C. MARTÍN-DE-ARGILA, R. CANTÓN, L. DE RAFAEL & F. BAQUERO

## No. 8

- REVIEW**
- 737 The Diagnosis and Management of Splanchnic Artery Aneurysms  
O. RØKKE, K. SØNDENAA, S. AMUNDSEN,  
T. BJERKE-LARSEN & D. JENSEN
- HELICOBACTER PYLORI**
- 744 *Helicobacter pylori* Infection in Non-Ulcer Dyspeptic and Ulcer Patients. Determinants and Consequences in 'Real Life'  
H. L. THÜRMER, B. FLAATEN, K. E. ERICHSEN, N. O. LID & S. B. SOLHEIM
- 749 Seroprevalence of *Helicobacter pylori* Infection in Medical Staff in Shanghai  
W. Z. LIU, S. D. XIAO, S.-J. JIANG, R.-R. LI & Z. J. PANG
- UPPER GASTROINTESTINAL TRACT**
- 753 Prevention of Peptic Ulcer and Dyspeptic Symptoms with Omeprazole in Patients Receiving Continuous Non-Steroidal Anti-Inflammatory Drug Therapy. A Nordic Multicentre Study  
P. EKSTRÖM, L. CARLING, S. WETTERHUS, P.E. WINGREN, O. ANKER-HANSEN, G. LUNDEGÅRDH, E. THORHALLSSON & P. UNGE
- SMALL AND LARGE INTESTINE**
- 759 IgA Antidiendomysial Antibodies on the Umbilical Cord in Diagnosing Celiac Disease. Sensitivity, Specificity and Comparative Evaluation with the Traditional Kit  
A. CARROCCIO, F. CAVATAIO, G. IACONO, V. AGATE, S. IPPOLITO, I. KAZMIERSKA, P. CAMPAGNA, M. SORESI & G. MONTALTO
- 764 The Role of an Open-Access Bleeding Unit in the Management of Colonic Haemorrhage. A 2-Year Prospective Study  
P. N. BRAMLEY, J. W. MASSON, G. McKNIGHT, K. HERD, A. FRASER, K. PARK, P. W. BRUNT, A. MCKINLAY, T. S. SINCLAIR & N. A. G. MOWAT
- 770 Colectomy for Severe Slow-Transit Constipation in Strictly Selected Patients  
J. CHRISTIANSEN & Ø. ØDER RASMUSSEN
- INFLAMMATORY BOWEL DISEASE**
- 774 Evaluation of the Role of Mast Cells in the Progression of Acetic Acid-Induced Colitis in Mice  
A. HIGA, N. ISHIKAWA, T. ETO & Y. NAWA
- 778 Omega-3 Fatty Acids and Low Carbohydrate Diet for Maintenance of Remission in Crohn's Disease. A Randomized Controlled Multicenter Trial  
H. LORENZ-MEYER, P. BAUER, C. NICOLAY, B. SCHULZ, J. PURRMANN, W. E. FLEIG, C. SCHEURLEN, I. KOOP, V. PUDEL, L. CARR & STUDY GROUP MEMBERS (GERMAN CROHN'S DISEASE STUDY GROUP)
- 786 Attenuation of the Inflammatory Response in an Animal Colitis Model by Neutrophil Inhibitory Factor, a Novel  $\beta_2$ -Integrin Antagonist  
J. MEENAN, D. W. HOMMES, M. MEVISSEN, S. DIJKHUIZEN, H. SOULE, M. MOYLE, H. R. BÜLLER, F. W. TEN KATE, G. N. J. TYTGAT & S. J. H. VAN DEVENTER
- 792 A Prospective Study of the Relationship between Disease Activity and Psychologic Distress in Patients with Inflammatory Bowel Disease  
P. PORCELLI, C. LEOCI & V. GUERRA
- LIVER AND BILIARY TRACT**
- 797 Protective Effects of Trolox C, Vitamin C, and Catalase on Bromobenzene-Induced Damage to Rat Hepatocytes  
J. WU, K. KARLSSON & Å. DANIELSSON
- 804 Relationship between the Serum Concentration of 7 $\alpha$ -Hydroxycholesterol and Fecal Bile Acid Excretion in Humans  
C. HAHN & K. VON BERGMANN
- 809 Minor Role of Hepatitis B and C Virus Infection in the Etiology of Hepatocellular Carcinoma in a Low-Endemic Area  
J. KACZYNSKI, G. HANSSON, S. HERMODSSON, R. OLSSON & S. WALLERSTEDT
- ASCITES**
- 814 Serum/Ascites Albumin Gradient: Its Value as a Rational Approach to the Differential Diagnosis of Ascites  
E. A. AKRIVIADIS, D. KAPNIAS, M. HADJIGAVRIEL, A. MITSIOU & J. GOULIS
- PANCREAS**
- 818 Serum Trypsinogen-2 in the Prediction of Outcome in Acute Necrotizing Pancreatitis  
V. SAINIO, P. PUOLAKKAINEN, E. KEMPPAINEN, J. HEDSTRÖM, R. HAAPIAINEN, L. KIVISAARI, U.-H. STENMAN, T. SCHRÖDER & E. KIVILAAKSO
- CASE REPORT**
- 825 Hyperplastic Polyposis of the Large Bowel. Three Cases and a Review of the Literature  
H. JØRGENSEN, A. MELLON MOGENSEN & L. B. SVENDSEN
- CORRESPONDENCE**
- 831 Controversial Aspects in the Pathophysiology of Duodenal Ulcer  
M. GUSLANDI, A. MERTZ-NIELSEN, J. HILLINGSØ, H. FRØKIÆR, K. BUKHAVE & J. RASK-MADSEN

## No. 9

- OBITUARY**  
**833 In Memoriam. J. Myren, 1915–1996**  
 L. E. HANSEN
- GUIDELINES**  
**834 The Norwegian Guidelines for Surveillance after Polypectomy: 10-Year Intervals**  
 G. HOFF, J. SAUAR, B. HOFSTAD & M. H. VATN
- STOMACH**  
**837 Mucosal Irritation, Adaptive Cytoprotection, and Adaptation to Topical Ammonia in the Rat Stomach**  
 T. BRZOZOWSKI, P. Ch. KONTUREK, S. J. KONTUREK,  
 H. ERNST, K. SLIWOWSKI & E. G. HAHN
- 847 Three-Dimensional Ultrasonography of the Gastric Antrum in Patients with Functional Dyspepsia**  
 O. H. GILJA, T. HAUSKEN, S. ØDEGAARD & A. BERSTAD
- HELMICOBACTER PYLORI**  
**856 Severity of *Helicobacter pylori* Gastritis Predicts Duodenal Ulcer Recurrence**  
 S. MIEHLKE, E. BAYERDÖRFFER, N. LEHN, G. A. MANNES,  
 A. SOMMER, W. HÖCHTER, J. WEINGART, E. BÄSTLEIN,  
 R. HATZ & M. STOLTE
- MALABSORPTION**  
**863 Fecal Fat Measurement in the Presence of Long- and Medium-Chain Triglycerides and Fatty Acids. Comparison of Three Methods**  
 S. CALIARI, I. VANTINI, C. SEMBENINI, B. GREGORI,  
 V. CARNIELLI & L. BENINI
- SMALL AND LARGE INTESTINE**  
**868 Effects of Perorally Applied Endotoxin on Colonic Mucins of Germfree Rats**  
 M.-L. ENSS, H. MÜLLER, U. SCHMIDT-WITTIG,  
 R. KOWNATZKI, M. COENEN & H. J. HEDRICH
- 875 Interdigestive and Postprandial Motility in Small-Intestinal Bacterial Overgrowth**  
 P.-O. STOTZER, E. S. BJÖRNSSON & H. ABRAHAMSSON
- 881 Reevaluation of Clinical Features of Ischemic Colitis. Analysis of 68 Consecutive Cases Diagnosed by Early Colonoscopy**  
 Y. HABU, Y. TAHASHI, K. KIYOTA, K. MATSUMURA,  
 M. HIROTA, H. INOKUCHI & K. KAWAI
- 887 Efficacy of SF 68 in the Treatment of Acute Diarrhea. A Placebo-Controlled Trial**  
 P. BUYDENS & S. DEBEUCKELAERE
- INFLAMMATORY BOWEL DISEASE**  
**892 A Population-Based Study of Inflammatory Bowel Disease in Florence over 15 Years (1978–92)**
- G. TRALLORI, D. PALLI, C. SAIEVA, G. BARDAZZI,  
 A. G. BONANOMI, G. d'ALBASIO, M. GALLI, G. VANNOCZI,  
 M. MILLA, O. TARANTINO, F. RENAI, A. MESSORI,  
 A. AMOROSI, F. PACINI & A. MORETTINI**
- 900 Exudative and Absorptive Permeability in Different Phases of an Experimental Colitis Condition**  
 K. J. McHUGH, E. SVENSSJÖ & C. G. A. PERSSON
- BACTERIAL GASTROENTERITIS**  
**906 Bacterial Gastroenteritis among Hospitalized Patients in a Danish County, 1991–93**  
 A. MUNK PETERSEN, S. VINOTHER NIELSEN, D. MEYER,  
 P. GANER & K. LADEFØGED
- GASTROINTESTINAL BLEEDING**  
**912 Is There a Relationship between the Use of Analgesics and Non-Steroidal Anti-Inflammatory Drugs and Acute Upper Gastrointestinal Bleeding? A Finnish Case-Control Prospective Study**  
 M. MATIKAINEN & E. KANGAS
- GASTROINTESTINAL CANCER**  
**917 Clinical Findings in a Family with Familial Adenomatous Polyposis and a Missense Mutation of the Adenomatous Polyposis Coli Gene**  
 C. A. MARCHESE, F. BERTOLINO, B. CECCOPIERI,  
 M. VANZETTI, D. SCAGLIONE, L. LOCATELLI, M. MONTERA, L.  
 ROMIO, N. RESTA, A. STELLA, G. GUANTI & C. MARENİ
- LIVER AND BILIARY TRACT**  
**921 Hepatocyte Growth Factor mRNA in Human Liver Cirrhosis as Evidenced by *in situ* Hybridization**  
 K. YAMAGUCHI, M. A. NALESNIK & G. K. MICHALOPOULOS
- 928 Relation of Calcitonin Gene-Related Peptide to Systemic Vasodilatation and Central Hypovolaemia in Cirrhosis**  
 S. MØLLER, F. BENDTSSEN, S. SCHIFTER & J. H. HENRIKSEN
- 934 Extracorporeal Shockwave Lithotripsy of Common Bile Duct Stones without Preliminary Endoscopic Sphincterotomy**  
 I. YASUDA & E. TOMITA
- CASE REPORT**  
**940 Polycystic Liver Disease, Complicated by *Salmonella* Infection**  
 E. GROSSMANN & S. HANCKE
- CORRESPONDENCE**  
**943 Target Antigen for Anti-Neutrophil Cytoplasmic Antibodies in Inflammatory Bowel Disease**  
 M. P. STOFFEL, E. CSERNOK & W. L. GROSS  
 E. HERTERVIG & J. WIESLANDER

## No. 10

- REVIEW**  
**945 Treatment of Distal Ulcerative Colitis with Nonsystemic Corticosteroid Enemas**  
 Å. DANIELSSON
- OESOPHAGUS**  
**954 Gastro-Oesophageal Reflux during 3 Months of Therapy with Ranitidine in Reflux Oesophagitis**  
 J. G. HATLEBAKK & A. BERSTAD

- STOMACH**
- 959 Depletion of Enterochromaffin-Like Cell Histamine Increases Histidine Decarboxylase and Chromogranin A mRNA Levels in Rat Stomach by a Gastrin-Independent Mechanism  
K. ANDERSSON, E. LINDSTRÖM, D. CHEN, H.-J. MONSTEIN, Å. BOKE TOFT & R. HÄKANSON
- MOTILITY**
- 966 Distal Oesophageal Motility Characteristics in Relation to Amplitude of Contraction in Healthy Persons  
O. FRØBERT, H. V. MIDDELFART, J. P. BAGGER & P. FUNCH-JENSEN
- SMALL AND LARGE INTESTINE**
- 973 Secretor Status and Human Leucocyte Antigens in Coeliac Disease  
M. A. HENEGHAN, M. KEARNS, J. GOULDING, E. L. EGAN, F. M. STEVENS & C. F. MCCARTHY
- 977 Mucosal Cytokine Production in Small-Intestinal Bacterial Overgrowth  
S. M. RIORDAN, C. J. MCIVER, D. WAKEFIELD, V. M. DUNCOMBE, T. D. BOLIN & M. C. THOMAS
- INFLAMMAMTOY BOWEL DISEASE**
- 985 Impairment of Antioxidants in Colonic Epithelial Cells Isolated from Trinitrobenzene Sulphonic Acid-Induced Colitis Rats. Protective Effect of Rebamipide  
W.-L. ZEA-IRIARTE, K. MAKIYAMA, S. GOTO, K. MURASE, Y. URATA, I. SEKINE, K. HARA & T. KONDO
- GASTROINTESTINAL HORMONES**
- 993 Importance of Gastrin-Releasing Peptide on Acid-Induced Secretin Release and Pancreaticobiliary and Duodenal Bicarbonate Secretion  
H. GLAD, P. SVENDSEN, S. KNUHTSEN, O. OLSEN & O. B. SCHAFFALITZKY DE MUCKADELL
- GASTROINTESTINAL CANCER**
- 1001 Fecal Marker Variability in Colorectal Cancer: Calprotectin versus Hemoglobin  
J. A. GILBERT, D. A. AHLQUIST, D. W. MAHONEY, A. R. ZINSMEISTER, J. RUBIN & R. D. ELLEFSON
- 1006 Polypectomy of Adenomas in the Prevention of Colorectal Cancer: 10 Years' Follow-up of the Telemark Polyp Study I. A Prospective, Controlled Population Study**  
G. HOFF, J. SAUAR, M. H. VATN, S. LARSEN, F. LANGMARK, I. E. MOEN, A. FOERSTER & E. THIIS-EVENSEN
- 1011 Colonic Production of Butyrate in Patients with Previous Colonic Cancer during Long-Term Treatment with Dietary Fibre (*Plantago ovata* Seeds)**  
I. NORDGAARD, H. HOVE, M. R. CLAUSEN & P. B. MORTENSEN
- LIVER AND BILIARY TRACT**
- 1021 Treatment with Recombinant Interferon- $\alpha$ 2a for Patients with Chronic Hepatitis C: Predictive Factors for Biochemical and Virologic Response  
H. HAGIWARA, N. HAYASHI, A. KASAHARA, M. OSHITA, K. KATAYAMA, M. KATO, M. MASUZAWA, H. FUSAMOTO, M. SAKURAI, T. KAMADA & OSAKA LIVER DISEASE STUDY GROUP
- 1027 Safety and Immunogenicity of a Combined Hepatitis A and Hepatitis B Vaccine in Young Healthy Adults  
G. LEROUX-ROELS, E. MOREAU, I. DESOMBRE & A. SAFARY
- PANCREAS**
- 1032 Neopterin in Acute Pancreatitis  
G. UOMO, O. A. SPADA, G. MANES, B. FEOLA, S. MISSO, A. CAVALLERA & P. G. RABITTI
- CASE REPORT**
- 1037 Somatostatin in the Treatment of Gastrointestinal Bleeding Caused by Angiodysplasia  
M. R. ANDERSEN & J. AASEBY
- CORRESPONDENCE**
- 1040 Changes in Extent of Ulcerative Colitis  
C. D. JACOBSEN

## No. 11

## CURRENT OPINION

- 1041 *Helicobacter pylori* and Gastric Cancer: An Overrated Risk?  
M. CRESPI & F. CITARDA

## OESOPHAGUS

- 1047 Gastroesophageal Reflux in Obese Patients Is Not Reduced by Weight Reduction  
A. KJELLIN, S. RAMEL, S. RÖSSNER & K. THOR
- 1052 Quality of Life Assessment after Laparoscopic and Open Fundoplications. Results of a Prospective, Clinical Study  
A. BLOMQVIST, H. LÖNROTH, J. DALENBÄCK, M. RUTH, I. WIKLUND & L. LUNDELL

## GASTROINTESTINAL BLEEDING

- 1059 Randomized Trial of Endoscopic Injection Sclerosis with Ethanolamine Oleate and Ethanol for Bleeding Peptic Ulcer  
J. T. MÄKELÄ, H. KIVINIEMI & S. T. LAITINEN

*HELICOBACTER PYLORI*

- 1063 Higher Prevalence of *Helicobacter pylori* Infection in Dyspeptic Patients Who Do Not Have Gastric Phase III of the Migrating Motor Complex  
P. A. TESTONI, F. BAGNOLO, P. BOLOGNA, E. COLOMBO, U. BONASSI, F. LELLA & M. BUIZZA

- DUODENAL BICARBONATE SECRETION**
- 1069 Acid-Base Transport in Isolated Rabbit Duodenal Villus and Crypt Cells  
M. A. AINSWORTH, M. AMELSBERG, D. L. HOGAN & J. I. ISENBERG
- NON-ULCER DYSPEPSIA**
- 1078 A Quantitative Analysis of Symptoms of Non-Ulcer Dyspepsia as Related to Age, Pathology, and *Helicobacter* Infection  
S. T. LAI, K. P. FUNG, F. H. NG & K. C. LEE
- MOTILITY**
- 1083 Long-Term Results of Subtotal Colectomy and Evidence of Noncolonic Involvement in Patients with Idiopathic Slow-Transit Constipation  
S. GHOSH, M. PAPACHRYSTOSOMOU, M. BATOOL & M. A. EASTWOOD
- SMALL AND LARGE INTESTINE**
- 1092 HLA Genotypes and the Increased Incidence of Coeliac Disease in Sweden  
R. PLOSKI, H. ASCHER & L. M. SOLLID
- 1098 The Expression of Complement Protein 4 and IgG3 in Luminal Secretions  
S. M. RIORDAN, C. J. McIVER, M. C. THOMAS, D. WAKEFIELD, P. C. ANDREOPoulos, V. M. DUNCOMBE & T. D. BOLIN
- 1103 Luminal Immunity in Small-Intestinal Bacterial Overgrowth and Old Age  
S. M. RIORDAN, C. J. McIVER, D. WAKEFIELD, V. M. DUNCOMBE, T. D. BOLIN & M. C. THOMAS
- IRRITABLE BOWEL SYNDROME**
- 1110 Disturbed Motilin and Cholecystokinin Release in the Irritable Bowel Syndrome  
K. SJÖLUND, R. EKMAN, S. LINDGREN & J. F. REHFELD
- GASTROINTESTINAL CANCER**
- 1115 Combined Endoscopic Ultrasonography and Laparoscopic Ultrasonography in the Pretherapeutic Assessment of Resectability in Patients with Upper Gastrointestinal Malignancies  
M. B. MORTENSEN, J. D. SCHEEL-HINCKE, M. R. MADSEN, N. QVIST & C. HOVENDAL
- LIVER AND BILIARY TRACT**
- 1120 Alcohol Abuse Exaggerates Autonomic Dysfunction in Chronic Liver Disease  
S. LINDGREN, B. LILJA, H. VERBAAN & G. SUNDKVIST
- PANCREAS**
- 1125 Lack of Response to Dietary Protein in Pancreatic Secretion by Chronic Deprivation of Jejunal Chyme in Rats  
H. HARA & T. KASAI
- CASE REPORT**
- 1132 Intrahepatic Portosystemic Venous Shunt: Report of Two Cases Assessed by Helical Computed Tomography  
Y. NAGAFUCHI, H. WATANABE, K. KITAHARA, K. OKAMOTO, K. HIRATA, A. TABARU, M. OTSUKI, H. NAKATA & H. ITHO
- CORRESPONDENCE**
- 1136 *Helicobacter pylori* Infection and Gastroduodenal Ulcer in Self-Defense Officials in Japan  
K. SHINCHI, S. KONO & K. IMANISHI

## No. 12

- REVIEW**
- 1137 Animal Models of Liver Fibrosis  
J. WU & P. A. NORTON
- STOMACH**
- 1144 Transient Increase of Blood Histamine Level Induced by Pentagastrin. Continuous Monitoring by *in vivo* Microdialysis  
H. WATANABE, T. MOCHIZUKI & K. MAEYAMA
- HELICOBACTER PYLORI**
- 1151 Intragastric pH during Treatment with Omeprazole: Role of *Helicobacter pylori* and *H. pylori*-Associated Gastritis  
E. F. VERDÚ, D. ARMSTRONG, J.-P. IDSTRÖM, J. LABENZ, M. STOLTE, G. BÖRSCH & A. L. BLUM
- MOTILITY**
- 1162 Diagnostic Value of Dumping Provocation in Patients after Gastric Surgery  
F. G. H. VAN DER KLEIJ, J. VECHT, C. B. H. W. LAMERS & A. A. M. MASCLEE
- DUODENUM**
- 1167 Laminin Stimulates Rapid Epithelial Restitution of Rabbit Duodenal Mucosa *in Vitro*  
M. RIEGLER, R. SEDIVY, W. FEIL, G. HAMILTON, B. TELEKY, G. BISCHOF, E. COSENTINI, T. SOGUKOGLU, R. SCHIESSEL & E. WENZL

- 1176 Duodenal Intraepithelial and Lamina Propria T Lymphocytes in Human Immunodeficiency Virus-Infected Patients with and without Diarrhoea  
F. SNIJERS, J. MEENAN, B. VAN DEN BLINK,  
S. J. H. VAN DEVENTER & F. J. W. TEN KATE
- SMALL AND LARGE INTESTINE**
- 1182 Detection of Naproxen-Induced Intestinal Permeability Change May Be Facilitated by Adding a Standardized Meal but Not by Forming Marker Ratios  
H. ÖMAN, Å. E. K. HENRIKSSON, S. G. O. JOHANSSON &  
L. BLOMQVIST
- 1189 The Role of Nitric Oxide in the Acetylcholine-Induced Relaxation of the Feline Internal Anal Sphincter, in Vitro  
S. BUNTZEN, S. NORDGREN, L. HULTÉN & D. DELBRO
- INFLAMMATORY BOWEL DISEASE**
- 1195 Twenty Years' Colonoscopic Surveillance of Patients with Ulcerative Colitis. Detection of Dysplastic and Malignant Transformation  
B. LINDBERG, B. PERSSON, B. VERESS,  
H. INGELMAN-SUNDBERG & S. GRANQVIST
- LIVER AND BILIARY TRACT**
- 1205 Faecal Bile Acid Excretion during Detoxification in Patients with Alcohol Abuse  
G. ACKEHED, G. HEDENBORG, O. WISÉN & A. NORMAN
- 1211 Relationship between Human Leukocyte Antigen Determinants and Courses of Hepatitis B Virus Infection in Caucasian Patients with End-Stage Renal Disease  
D.-F. CHEN, V. KLIEM, W. ENDRES, R. BRUNKHORST,  
H. L. TILLMANN, K. M. KOCH, M. P. MANNS & W. STANGEL
- PANCREAS**
- 1216 Catechol-O-Methyltransferase Inhibition Increases the Uptake of <sup>11</sup>C-3-(3,4-Dihydroxyphenyl)-L-Alanine in the Rat Pancreas  
M. BERGSTRÖM, L. LU, M. MARQUEZ, R. MOULDER,  
G. JACOBSSON, M. ÖGREN, B. ERIKSSON, Y. WATANABE  
& B. LÄNGSTRÖM
- CASE REPORT**
- 1223 Papillary Cystic Tumor of the Pancreas in Children  
Y.-J. YANG, J.-S. CHEN, C.-J. CHEN, P.-W. LIN, K.-C. CHANG  
& C.-C. TZENG
- CORRESPONDENCE**
- 1228 Acute Pancreatitis in Buskerud, Norway  
C. D. JACOBSEN
- 1228 A Silver Cup  
I. FRØYSHOV LARSEN

## Supplements Published in Volume 31, 1996

**Supplement 214:** *Helicobacter pylori*—A Revolution in Understanding. Proceedings of Two Symposia Held 27 and 28 November 1994 in Osaka and Tokyo. Edited by A. T. R. Axon, K. Kimura and T. Shimoyama.

**Supplement 215:** The pH-Hp Challenge—From Mechanism to Management. Proceedings of a Symposium Held in Copenhagen, Denmark, 29 April 1995. Edited by A. T. R. Axon and P. Malfertheiner.

**Supplement 216:** Danish Gastroenterology 1971–1996. Edited by P. Matzen and S. Boesby.

**Supplement 217:** Abstracts of Papers Presented at the Twenty-Eighth Nordic Congress of Gastroenterology, the Nineteenth Nordic Endoscopic Meeting and the Seventh SAGIM Scientific Session. Reykjavik, Iceland, 13–15 June 1996. Edited by B. Thjodleifsson, Á. Theódórs, S. Björnsson and J. Magnússon.

**Supplement 218:** 10th Highlights of Gastroenterology in The Netherlands. Proceedings of a Symposium Held 5–9 April 1995 in Curaçao. Edited by C. B. H. W. Lamers and C. A. Sumajow.

**Supplement 219:** Mediators in Acute Pancreatitis. Proceedings of a Meeting Held 23 June 1995 at the Liverpool Medical Institution, Liverpool, UK. Edited by A. Kingsnorth.

**Supplement 220:** Current Topics in Gastroenterology. Exploring the Jungle. Edited by H. Glise.

**Supplement 221:** Quality of Life in Gastrointestinal Disease—A Challenge and/or a Panacea? A Workshop Held in Cape Town, South Africa, on 3–4 November 1995. Edited by H. Glise and I. Wiklund.